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JUL 2 5 2005 PATENT COOPI	
From the INTERNATIONAL SEARCHING AUTHORITY	
TO UNICH & HUSON	PCT -305
MAYA SKUBATCH	
WILSON SONSINI GOODRICH & ROSATI 650 PAGE MILL ROAD	NOTIFICATION OF TRANSMITTAL OF
PALO ALTO, CA 94306-1050	THE INTERNATIONAL SEARCH REPORT
	OR THE DECLARATION
	(PCT Rule 44.1)
	Date of Mailing
	(day/month/year) 20 JUL 2005
Applicant's or agent's file reference	
12636-305.601	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US04/22367	(day/month/year) 13 July 2004 (13.07.2004)
Applicant	15 July 2004 (13.07.2004)
SUPERGEN, INC.	
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	: aims of the international application (see Rule 46):
The applicant is entitled, if he so wishes, to amend the class when? The time limit for filing such amendments is international search report. Where? Directly to the International Bureau of WIP-1211 Geneva 20, Switzerland, Facsimile No. For more detailed instructions, see the notes on the The applicant is hereby notified that no international sear Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) add the protest together with the decision thereon has be applicant's request to forward the texts of both the no decision has been made yet on the protest; the actual decision has been made yet on the protest; the actual when the second se	aims of the international application (see Rule 46): s normally two months from the date of transmittal of the O, 34, chemin des Colombettes o.: (41-22) 740.14.35 accompanying sheet. Inch report will be established and that the declaration under ditional fee(s) under Rule 40.2, the applicant is notified that: the entransmitted to the International Bureau together with the exprotest and the decision thereon to the designated Offices. Applicant will be notified as soon as a decision is made.
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12636-305.601	FOR FURTHER ACTION	(Form PCT below	tion of Transmittal of International Search Report //SA/220) as well as, where applicable, item 5
International application No. PCT/US04/22367	International filing date (day/mon 13 July 2004 (13.07.2004)	th/year)	(Earliest) Priority Date (day/month/year) 12 September 2003 (12.09.2003)
Applicant SUPERGEN, INC.			
This international search report has been according to Article 18. A copy is being This international search report consists	g transmitted to the international B	rching Aut ureau.	hority and is transmitted to the applicant
It is also accompanie	d by a copy of each prior art docum	nent cited in	n this report.
language in which it was file	d, unless otherwise indicated under	ting trem.	basis of the international application in the
the international search w	as carried out on the basis of a transi	ation of the	international application furnished to this
Authority (Rule 23.1(b)). b. With regard to any nucleotic search was carried out on the	le and/or amino acid sequence disc e basis of the sequence listing:	closed in th	e international application, the international
	mal application in written form.		-
	ernational application in computer re	eadable for	n.
	this Authority in written form.	6	·
furnished subsequently to	this Authority in computer readable	: IOTIO.	and so havend the disclosure in the
international application	as filed has been furnished.		es not go beyond the disclosure in the
the statement that the inf	ormation recorded in computer read	able form is	identical to the written sequence listing has
2. Certain claims were for	and unsearchable (See Box I).		
3. Unity of invention is lac	king (See Box II).		
4. With regard to the title,	1		
	abmitted by the applicant.	nws:	
the text has been establi	shed by this Authority to read as foll	.	
5. With regard to the abstract,			
the text is approved as s	ubmitted by the applicant.		the specific program in Box III. The applicant may.
the text has been establi	shed, according to Rule 38.2(b), by the date of mailing of this internation	nal search re	ty as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be as suggested by the app	published with the abstract is Figur licant.	e No	None of the figures
	iled to suggest a figure.		
	er characterizes the invention.		_
DCT/IS A /210 (first sheet) (July 1	998)		

INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/22367

PC(7) : A61K 031/7072; A61K 31/40.				
PC(7) : A61K 031/7072; A61K 31/40. US CL : 514/49, 85, 234.5, 269, 300; 536/23.1, 23.5; 435/69.1, 325; 424/45, 450.				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELI	OS SEARCHED			
Minimum doc U.S.: 514	Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/49, 85, 234.5, 269, 300; 536/23.1, 23.5; 435/69.1, 325; 424/45, 450.			
Documentatio	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched .			
Electronic dat Please See Co	a base consulted during the international search (name ontinuation Sheet	of data base and, where practicable, sear	ch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y	VONHOFF,D.D. 5-Azacytidine, Annals of Internal M		1-105	
	245.			
Y	US 4,690,918 (BEPPU et al D) September 1987 (01.0	19.1987), abstract and claims.	1-105	
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.		
"A" docume	Special categories of cited documents: nt defining the general state of the art which is not considered to be of ar relevance	"I" later document published after the inter and not in conflict with the application principle or theory underlying the inver	but cited to understand the ation	
"E" ezdiora	pplication or patent published on or after the international fiting date	"X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone		
establisi specifie	nt which may throw doubts on priority claim(s) or which is cited to h the publication date of another citation or other special reason (as d) at referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such document to a person skilled in the art	when the document is combined	
"P" docume	ent published prior to the international filing date but later than the date claimed	"&" document member of the same patent	amily	
Date of the actual completion of the international search Date of mailing of the international search report				
26 May 200	26 May 2005 (26.05.2005)			
Name and mailing address of the ISA/US Mail Stop PCT, Atta: ISA/US Commissioner of Patents Anthonized officer Devish Khare				
P	.O. Box 1450 Jexandria, Virginia 22313-1450	(elephone No. 1571) 272-16 (ID_		
Form PCT/IS	No. (703)305-3230 SA/210 (second sheet) (July 1998)			

INTERNATIONAL SEARCH REPORT	
Continuation of B. FIELDS SEARCHED Item 3: CAS online, EAST, Search terms used: decitabine, 5-aza-cytidine, deacetylase in the continuation of th	shibitor, trichostatin, leukemia, tumor and DNA
CAS online, EAST, Search terms used: decitabine, 5-aza-cytidine, deacetylase i methylation inhibitor.	initiality, archestati, 1242223,
methylation inflicted.	

PCT/US04/22367

Form PCT/ISA/210 (second sheet) (July 1998)

International application No. PCT/US04/22367

Supplemental Box In case the space in any of the preceding boxes is not sufficient. trichostatin compounds (deacetylase inhibitor) have shown activity against resistant phase CML as single agents and were therefore tested in combination.		
	Y. ·	
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Form PCT/ISA/237 (Supplemental Box) (January 2004)

International application No. PCT/US04/22367

	Supplemental Box In case the space in any of the preceding boxes is not sufficient.
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l	
1	V. 2. Citations and Explanations: Claims 1-105 lack an inventive step under PCT Article 33(3) over Von Hoff et al. (Ann. Int. Med. 85(2) pages 237-45, 1976
Į	is view of Report et al. (IJS Patent 4.690.918).

Claims: 1-105 are drawn to a method for treating a patient having a disease associated with over-expression of EZH2 (abnormal tyrosine kinase activity) comprising administering a DNA methylation inhibitor and/or a histone deacetylase inhibitor. Additional claim limitations include the histone deacetylase inhibitor such as trichostatin A; DNA methylation inhibitor is a cytidine analog or decitabine (5-azacytidine); administration by intravenous infusion, orally, parenterally, vaginally, via local delivery, or intrathecally.

Von Hoff et al. disclose the use and effectiveness of 5-azacytidine, the cytidine analog, in the treatment of acute myelogenous leukemeia (abstract). It is noted that the applicant discloses in specification on page 1(Field of invention) that the abnormal protein tyrosine kinase activity is associated with chronic myelogenous leukemia (CML). Von Hoff et al. disclose the effectiveness of 5-azacytidine in childhood leukemia or during the induction phase (page 239, col. 2nd. under European Trials). It is noted that Von Hoff et al. do not provide specific disclosure where the patient's CML is staged prior to administration or the administration is performed when the patient is in blast phase of CML, however Von Hoff et al. disclose that "5-azacytidine seems to be cell-cycle phase specific in that it is most toxic to cells in the S phase, especially at low concentrations" (page 238, first para.). It is also noted that both 5-azacytidine and decitabine which is 5aza-2'-deoxycytidine (claim 48) have nitrogen in place of the fifth carbon in the base moiety (Von Hoff et al., page 237, 2nd para.). Von Hoff et al. teach the administration of 5-azacytidine by intravenous and subcutaneous routes (page 239, first col. first para. lines 2-7). Von Hoff et al. also suggest the dosage of 5-azacytidine for intravenous administration in the ranges of 1.1-633.0 mg/m² (page 239, table 1 and page 240, 2nd col. 2nd para.). Von Hoff et al. disclose the doses from 2 mg/m²-3.3 mg/m² per day and can be increased to 70 to 100 times the initial starting dose (pages 239, last para. through page 240, first para.). Von Hoff et al. further teach the combination therapy of acute myelogenous leukemia with 5-azacytidine with other agents (page 241, table 3). Von Hoff et al. suggest a need for future clinical studies for using 5-azacylidine alone and in combination with other agents in the treatment of acute myelogenous leukemia (page 244, first col. third. para.). Von Hoff et al. differs from the applicant's invention that Von Hoff et al. do not provide an example for the use of histone deacetylase inhibitor such as trichostatin compounds (deacetylase inhibitor).

Beppu et al. disclose the use of trichostatin compounds (deacetylase inhibitor) for treating tumor cells (abstract and claims).

Therefore, one of ordinary skill in the art would have found the applicants claimed method for treating a patient having chronic myelogenous leukemia (CML), with a therapeutically effective amount of a 5-azacytidine (an analog of cytidine or a DNA methylation inhibitor) and/or in combination with deacetylase inhibitor, to have been obvious at the time the invention was made having the above cited references before him. Since Von Hoff et al. teach the use and effectiveness of 5-was made having the treatment of acute myelogenous leukemeia, and Beppu et al. disclose the use of trichostatin compounds (deacetylase inhibitor) for treating tumor cells, one skilled in the art would have a reasonable expectation for success in combining the teachings of these references to accomplish the treatment of CML because both 5-azacytidine and

Form PCT/ISA/237 (Supplemental Box) (January 2004)

·PATENT COOPERATION TREATY

Tom the NTERNATIONAL SEARCHING AUTHORITY			
To: MAYA SKUBATCH WILSON SONSINI GOODRICH & ROS 650 PAGE MILL ROAD PALO ALTO, CA 94306-1050			PCT- ITTEN OPINION OF THE DNAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	20 JUL 2008
Applicant's or agent's file reference		FOR FURTHER ACTION	
12636-305.601			See paragraph 2 below
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US04/22367 International Patent Classification (IPC) of	13 July 2004 (13.07.2004)	4)	12 September 2003 (12.09.2003)
IPC(7): A61K 031/7072; A61K 31/40. an	d IIS C1 · 514/49 85 234	5 260 300 536/22 1	22 5, 42 5/60 1, 22 5, 42 4/45, 452
Applicant	<u>u 05 Cl.: 514/49,</u> 85, 254.	3, 209, 300, 330/23.	, 23.5; 433/69.1, 325; 424/45, 450.
SUPERGEN, INC.	T:	OCICETE	
1 This are 1 in 1 i			
1. This opinion contains indications rela		S:	
Box No. I Basis of the opinion			
Box No. II Priority			
Box No. III Non-establishment of opinion with re		gard to novelty, inven	tive step and industrial applicability
Box No. IV Lack of unit	y of invention		
Box No. V Reasoned st applicability	atement under Rule 43bis. 7, citations and explanation	1(a)(i) with regard to as supporting such sta	novelty, inventive step or industrial tement
Box No. VI Certain doct	uments cited		
Box No. VII Certain defe	ects in the international app	plication	
Box No. VIII Certain observations on the internatio		nal application	
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			
Name and mailing address of the ISA/ US Mail Stop PCT, Atm. ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Form PCT/ISA/237 (cover sheet) (January 2	(004)	Anthonized officers Defen Khare Telephone No. (2)	5713272-1600

- And here

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International application No.

PCT/US04/22367

Box No. I Basis of this opinion	
 With regard to the language, this opinion has been established on the basis of the international application in the language was filed, unless otherwise indicated under this item. 	1
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.	age, 1(b)).
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to invention, this opinion has been established on the basis of: 	the claimed
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in international application as filed.	}
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto h or furnished, the required statements that the information in the subsequent or additional copies is identical application as filed or does not go beyond the application as filed, as appropriate, were furnished.	as been filed to that in the
4. Additional comments:	
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POTESTA A 1927 Day No. 1) (January 2004)	

Form PCT/ISA/237(Box No. I) (January 2004)

International application No. PCT/US04/22367

Novelty (N) Claims 1-105 Claims NONE NO Inventive step (IS) Claims NONE Claims 1-105 NO Industrial applicability (IA) Claims 1-105 Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Claims NONE YES Claims NONE YES Claims 1-105 NO Industrial applicability (IA) Claims 1-105 YES Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	1. Statement			
Claims NONE YES Claims NONE YES Claims 1-105 NO Industrial applicability (IA) Claims 1-105 YES Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	Novelty (N)	Claims <u>1-105</u>	YES	
Industrial applicability (IA) Claims 1-105 Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet				
Industrial applicability (IA) Claims 1-105 Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	Inventive step (IS)	Claims NONE	YES	
Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	•		_	
Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet	Industrial applicability (IA)	Claims 1-105	YES	
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NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced for further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the When? applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of How? one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- . (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4 [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments chay be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(3)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submutted, the applicant must preferably, at the time of filing, the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.

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